

**PATENTS
GRANTED - FY2000**

PROGRAM	TYPE*	SUBJECT/AUTHORS
Dental and Medical Materials	Synthesis	Method for the Chemical Precipitation of Metallic Silver Powder Via a Two Solution Technique C. Johnson, G. Stafford (Metallurgy) Patent #6110254
Ultrasonic Characterization of Materials	Measurement method	Electromagnetic Acoustic Transducer and Methods of Determining Physical Properties of Cylindrical Bodies using an Electromagnetic Acoustic Transducer W. Johnson, G. Alers (Materials Reliability), one other (non-NIST)

**PATENTS
PENDING - FY2000**

PROGRAM	TYPE*	SUBJECT/AUTHORS
Ceramic Manufacturing	Process development	Methods for Machining Hard Materials Using Alcohols S. Hsu, R. Gates (Ceramics) and three others (non-NIST) Application No. 96-022US
Ceramic Manufacturing	Process development	Oxygen-Containing Compounds as Boundary Lubricants for Silicon Nitride Ceramics R. Gates, S. Hsu (Ceramics) Application No. 92-036US
Dental and Medical Materials	Synthesis	High Strength Polymeric Networks Derived (Meth) Acrylate Resins With Organoflourine Content and Process for Preparing Same J. Stansbury, J. Antonucci (Polymers) and two others (non-NIST) Application No. 96-042US

Dental and Medical Materials	Synthesis	Silylated Resins and the Synthesis Thereof J. Antonucci, J. Stansbury (Polymers), and one other (non-NIST) Application No. 98-006US
Dental and Medical Materials	Process development	Ultra-Low Temperature Neck Bonding Process J. Antonucci (Polymers) and one other (non-NIST) Application No. 96-031US
Dental and Medical Materials	Improved materials	Etchant/Primer Composition, Etchant/Primer Adhesive Monomer Composition, Kits and Methods using the Same for Improved Bonding to Dental Substrates J. Antonucci, M. Eichmiller, G. Schumacher (Polymers Division) Application No. 98-005US

PROGRAM	TYPE*	SUBJECT/AUTHORS
Dental and Medical Materials	Improved materials	Methacrylate-Vinylester Monomers Systems for Improved Polymeric Biomaterials J. Antonucci, J. Stansbury (Polymers Division) Application No. 00-019PA
Materials for Microelectronics	Measurement method	Method for Fixing the Position of Aligned Devices T. Siewert (Materials Reliability) Application No. 00-009PA
Materials for Microelectronics	Improved materials	Lead-Base Solders for High Temperature Applications F. Gayle (Metallurgy), and one other (non-NIST) Application No. 97-030US
Metals Processing	Measurement method	Method and Apparatus for Diffraction Measurement Using a Scanning X-Ray Source W. Dube, D. Fitting, T. Siewert (Materials Reliability)

		and one other (non-NIST) Application No. 97-026US
Metals Processing	Improved materials	High Nitrogen Stainless Steel F. Biancaniello, R. Jiggets, S. Ridder (Metallurgy) Application No. 98-025US
Multiphase Polymeric Materials	Synthesis	Crosslinked Micellar Gel Composition S. Kline (NCNR) Application No. 00-002US
Neutron Characterization	Measurement method	Low Background Doubly Focussing Neutron Monochromator S. Smee (NCNR) and 3 others (non-NIST) Application No. 00-020PA

PROGRAM	TYPE*	SUBJECT/AUTHORS
Ultrasonic Characterization of Materials	Measurement Method	Apparatus and Method for Utilizing Electromagnetic Acoustic Transducers to Non-Destructively Analyze In-Service Conductive Materials G. Alers (Materials Reliability) and two others (non-NIST) Application No. 98-023US
Ultrasonic Characterization of Materials	Measurement method	Ultrasonic Strain Gage Using a Motorized Electromagnetic Acoustic Transducer (EMAT) A. Clark, G. Alers (Materials Reliability) and two others (non-NIST) Application No. 98-020US